

# Umetco Minerals Corporation

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P.O. BOX 1029  
GRAND JUNCTION, COLORADO 81502  
☎ (303) 245-3700

July 23, 1990

Utah Department of Health  
Division of Environmental Health  
Bureau of Water Pollution Control  
P.O. Box 16690  
Salt Lake City, UT 84116-0690

Attention: Permits and Compliance Section

Dear Sirs:

Re: UPDES Permit UT-0023922  
Rim Mine, Utah  
Umetco Minerals Corporation

Umetco Minerals hereby submits the second quarter 1990 discharge monitoring report for UPDES Permit UT-0023922 for the Rim Mine located in San Juan County, Utah.

The effluent during April was at a pH of 6.0. Subsequent sampling during the quarter showed that the pH level increased to near 7. The pH of the raw influent has dropped to between 6 and 7 from a historical average of 8.6.

The compliance sampling for the quarter indicates that the soluble Radium-226 concentrations present in the discharge at the time of the April and May sampling, 13 and 6.6 pCi/L, respectively, were greater than the UPDES Permit mean standard of 3 pCi/Liter. The total average radium-226 concentration in April was 15 pCi/L while the May level was 8.6 pCi/L. The Rim mine did not discharge solutions from the treatment system during June as net lake evaporation from the facilities ponds exceeded the flow rate to the system.

The treatment system operation was reviewed during April and again in May to determine if any operational deficiencies were the source of the elevated Radium levels. No deviations or deficiencies in operation performance were observed. The Barium Chloride injection system was operating at normal levels with observed adequate settling times in the retention ponds. Additional sampling and analysis of the treatment system intake supply is to be undertaken to determine if the raw Radium and the

Sulfate concentrations have changed enough to reduce the effectiveness of the current Barium-Radium-Sulfate precipitation treatment. Lab bench tests will also be completed to re-evaluate the required levels of BaCl needed to adequately precipitate the Radium-226.

Other activities underway may minimize the future discharge of liquid effluents from the Rim Mine. The current principal mine water source is an aquifer zone located above the uranium ore body that was being drained by an uncased mine ventilation borehole. As of mid-July, Umetco has proceeded to encase the borehole to reduce the inflow of water into the mine, resulting in greatly reducing the flow to the mine dewatering treatment system.

If there are any questions, please contact me at 303-245-3700.

Sincerely,

*Niels B. Haubold* ✓  
Niels B. Haubold  
Manager of Mines

Encl.

NBH/jac

Certified-Return Receipt Requested

cc: U.S. Environmental Protection Agency  
999 8th Street, Suite 500 8WM-C  
Denver, Colorado 80202-2405

bcc: R. K. Jones  
R. F. Barnett  
A. S. Bates  
R. G. Tisch

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME Umetco Minerals Corporation  
 ADDRESS P. O. Box 1029  
Grand Junction, Colorado 81502  
 FACILITY Rim Mine, Utah  
 LOCATION Section 29, T31S, R25E

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
 DISCHARGE MONITORING REPORT (DMR)

(2-16) UT-0023922 (17-19) 001  
 PERMIT NUMBER DISCHARGE NUMBER

Form Approved  
 OMB No. 2040-0004  
 Approval expires 9-30-85

MONITORING PERIOD								
FROM			TO					
YEAR	MO	DAY	YEAR	MO	DAY			
90	04	01	90	06	30			
(20-21)	(22-23)	(24-25)	(26-27)	(28-29)	(30-31)			

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (38-45)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
Flow	SAMPLE MEASUREMENT	0.023	0.057	mgd	-	-	-		0	1/7	Meter
	PERMIT REQUIREMENT	N/A	N/A		-	-	-			1/7	Meter
TSS	SAMPLE MEASUREMENT	-	-		-	8	12	mg/l	0	1/30	Grab
	PERMIT REQUIREMENT	-	-		-	20	30			1/30	Grab
TDS	SAMPLE MEASUREMENT	-	-		-	-	256	mg/l	0	1/90	Grab
	PERMIT REQUIREMENT	-	-		-	-	1,000			1/90	Grab
Uranium, Nat. Total	SAMPLE MEASUREMENT	-	-		-	1.36	1.50	mg/l	0	1/30	Grab
	PERMIT REQUIREMENT	-	-		-	2.0	4.0			1/30	Grab
Ra-226, Total	SAMPLE MEASUREMENT	-	-		8.6	11.8	15	pCi/l	1	1/30	Grab
	PERMIT REQUIREMENT	-	-		-	10	30			1/30	Grab
Oil and Grease	SAMPLE MEASUREMENT	-	-		-	-	2	mg/l	0	1/90	Grab
	PERMIT REQUIREMENT	-	-		-	-	10			1/90	Grab
Zinc	SAMPLE MEASUREMENT	-	-		-	-	0.011	mg/l	0	1/90	Grab
	PERMIT REQUIREMENT	-	-		-	-	0.2			1/90	Grab

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

N. B. Haubold  
 Manager of Mines

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years)

*Nels B. Haubold*  
 SIGNATURE OF PRINCIPAL EXECUTIVE  
 OFFICER OR AUTHORIZED AGENT

TELEPHONE

303 245-3700  
 AREA CODE NUMBER

DATE

90 7 23  
 YEAR MO DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME Umetco Minerals Corporation  
 ADDRESS P. O. Box 1029  
Grand Junction, Colorado 815-2  
 FACILITY Rim Mine, Utah  
 LOCATION Section 29, T31S, R25E

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
 DISCHARGE MONITORING REPORT (DMR)

(2-16)

(17-19)

UT-0023922

PERMIT NUMBER

001

DISCHARGE NUMBER

MONITORING PERIOD

FROM YEAR MO DAY TO YEAR MO DAY  
 90 04 01 90 06 30  
 (20-21) (22-23) (24-25) (26-27) (28-29) (30-31)

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PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (54-61)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
COD	SAMPLE MEASUREMENT	-	-		-	24	24	mg/l	0	1/90	Grab
	PERMIT REQUIREMENT	-	-		-	100	200			1/90	Grab
ph	SAMPLE MEASUREMENT	-	-		6.0	6.5	6.9	su	1	1/30	Grab
	PERMIT REQUIREMENT	-	-		6.5	-	9.0			1/30	Grab
Sol. Ra-226	SAMPLE MEASUREMENT	-	-		6.6	9.8	13	pCi/l	2	1/30	Grab
	PERMIT REQUIREMENT	-	-		-	3.0	10.0			1/30	Grab
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
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*Nick B. Haubold*  
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 OFFICER OR AUTHORIZED AGENT

TELEPHONE

DATE

AREA  
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NUMBER

YEAR

MO

DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)